

# Roy Luo

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## TECHNICAL SKILLS

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**Languages:** Python, R, SQL, C, Bash

**Platforms and Tools:** Microsoft PowerBI, SQL Server, Git, Google BigQuery, Jupyter Notebook

**Libraries:** pandas, NumPy, Matplotlib, Plotly, Selenium, tidyverse, ggplot2

## EXPERIENCE

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### SimCorp Dimension Analyst Intern

*Precision Insight Consulting*

*Markham, ON*

- Used Data Format System (DFS) to import and load equity/bond trades, map to SCD transaction codes and use formulas to determine instrument type for validation
- Used Batch Job Group to extract definition from transaction table
- Built reference file of Daily CAD/USD settlement
- Managed, reviewed and assigned Jira tickets as necessary

## PROJECTS

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### League of Legends Jungle Tracker | *Python, pandas, Matplotlib, Plotly, Selenium*

- Developed a Python back-end that takes user input to retrieve and visualize data from a REST API
- Web application that is hosted on Streamlit
- Used Plotly and Matplotlib as data visualization libraries
- Used Selenium to webscrape for additional information to be displayed

### Live Crypto Orderbook Dashboard | *R, SQL Server, PowerBI*

- Created an R script to take in live websocket data to be cleaned and reformatted before uploading to a SQL Server
- Maintains a near real-time orderbook of any cryptocurrency with current mid-market rate and bid/ask prices
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

## EDUCATION

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### University of Waterloo

*Honours Mathematics, Coop*

*September 2023 – April 2027*

### McMaster University

*Mathematics and Statistics - GPA: 3.96/4.00*

*September 2022 – August 2023*

## ADDITIONAL INFORMATION

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**Certificates:** Google Data Analytics

**Languages:** English, Mandarin, French